

Client's ref.:A91322
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What is claimed is:

1 1. A mobile phone comprising:
2 a body;
3 an engaging member, moveably disposed on the body,
4 including a first rib having a first inclined
5 surface; and
6 a battery, detachably disposed on the body,
7 including a first concave portion corresponding
8 to the first rib, wherein the first rib is
9 located in the first concave portion, and the
10 battery is lifted by the first inclined surface
11 so as to be separated from the body.

1 2. The mobile phone as claimed in claim 1, wherein
2 the engaging member further includes a second rib, the
3 battery further includes a second concave portion
4 corresponding to the second rib, and the second rib is
5 located in the second concave portion.

1 3. The mobile phone as claimed in claim 2, wherein
2 the engaging member further includes a first surface and
3 a second surface, a normal vector of the first surface is
4 perpendicular to a moving direction of the engaging
5 member, the first rib is formed on the first surface, a
6 normal vector of the second surface is parallel with the
7 moving direction of the engaging member, and the second
8 rib is formed on the second surface.

1 4. The mobile phone as claimed in claim 3, wherein
2 the second rib includes a second inclined surface, a

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3 first angle is formed between the first inclined surface
4 and the normal vector of the second surface, a second
5 angle is formed between the second inclined surface and
6 the normal vector of the second surface, and the first
7 angle is smaller than the second angle.

1 5. The mobile phone as claimed in claim 3, wherein
2 the engaging member further includes a third surface, and
3 a normal vector of the third surface is perpendicular to
4 the moving direction of the engaging member.

1 6. The mobile phone as claimed in claim 5, wherein
2 the second surface connects the first surface and the
3 third surface.

1 7. The mobile phone as claimed in claim 5, wherein
2 the first surface and the second surface are covered by
3 the battery, and the third surface is exposed by the
4 body.

1 8. The mobile phone as claimed in claim 1, wherein
2 the body includes a slot, and the battery includes a
3 protrusion corresponding to the slot.

1 9. The mobile phone as claimed in claim 8, wherein
2 the protrusion and the second concave portion are formed
3 on opposite sides of the battery.

1 10. A device for fixing a battery of a mobile
2 phone, wherein the mobile phone includes a body and a
3 battery, the battery includes a concave portion, and the
4 device includes:

5 a main part moveably disposed on the body; and

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6 a first rib, integrally formed on the main part,
7 including a first inclined surface, wherein the
8 first rib is located in the concave portion,
9 and the battery is lifted by the first inclined
10 surface so as to be separated from the body.

1 11. The device as claimed in claim 10, further
2 comprising:

3 a second rib integrally formed on the main part.

1 12. The device as claimed in claim 11, wherein the
2 main part further includes a first surface and a second
3 surface, a normal vector of the first surface is
4 perpendicular to a moving direction of the main part, the
5 first rib is formed on the first surface, a normal vector
6 of the second surface is parallel with the moving
7 direction of the main part, and the second rib is formed
8 on the second surface.

1 13. The device as claimed in claim 12, wherein the
2 second rib includes a second inclined surface, a first
3 angle is formed between the first inclined surface and
4 the normal vector of the second surface, a second angle
5 is formed between the second inclined surface and the
6 normal vector of the second surface, and the first angle
7 is smaller than the second angle.

1 14. The device as claimed in claim 12, wherein the
2 main part further includes a third surface, and a normal
3 vector of the third surface is perpendicular to the
4 moving direction of the main part.

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1 15. The device as claimed in claim 14, wherein the
2 second surface connects the first surface and the third
3 surface.

1 16. The device as claimed in claim 14, wherein the
2 first surface and the second surface are covered by the
3 battery, and the third surface is exposed by the body.